

In the Claims

1. (Previously Presented) A lightweight subsea intervention package for use in servicing a subsea well, said subsea well comprising at least one of a vertical Christmas tree or a horizontal Christmas tree, said subsea intervention package being operable for containing said subsea well while using at least one of tubing, coiled tubing, or wireline during said servicing of said subsea wells, said subsea intervention package comprising:

a lower package attachable to said subsea well regardless of whether said subsea well comprises said vertical Christmas tree or said horizontal Christmas tree, said lower package comprising at least two hydraulically actuated valves neither of which are B.O.P.'s, at least one of said at least two hydraulically actuated valves being operable for cutting said tubing, coiled tubing, or wireline and then closing to form a seal for sealing said subsea well, said lower package defining a bore through said at least two hydraulically actuated valves which is greater than six and one-eighth inches;

a disconnect mechanism comprising a first portion and a second portion, said first portion of said disconnect mechanism being secured to said lower package, said first portion and said second portion of said disconnect mechanism being selectively separable;

an emergency disconnect package mountable to said second portion of said disconnect mechanism, said emergency disconnect package comprising at least one hydraulically actuated valve, said emergency disconnect package defining a bore through said at least one hydraulically actuated valve which is greater than six and one-eighth inches, said lightweight subsea intervention package being light enough and defining a footprint small enough such that said lightweight subsea intervention package can be installed on said subsea well utilizing a vessel with a handling capacity less than that of a semi-submersible platform.

2. (Original) The lightweight subsea intervention package of claim 1, wherein said at least two hydraulically actuated valves and said at least one hydraulically actuated valve define a bore

therethrough which is greater than seven and one-eighth inches.

3. (Original) The lightweight subsea intervention package of claim 1, wherein said lower package weighs between ten and thirty tons, and said emergency disconnect package weighs between five and twenty tons.

4. (Original) The lightweight subsea intervention package of claim 1, wherein said emergency disconnect package is securable to a riser and wherein said emergency disconnect package is operable to seal a lower end of said riser if said disconnect mechanism is activated to separate said emergency disconnect package from said lower package.

5. (Original) The lightweight subsea intervention package of claim 1, wherein a first of said at least two hydraulically actuated valves comprises a fail-safe actuator mounted on one side of a valve body and a manual override actuator mounted on an opposite side of said valve body.

6. (Original) The lightweight subsea intervention package of claim 1, wherein a first of said at least two hydraulically actuated valves comprises a gate valve which comprises a cutter and seal assembly.

7. (Previously Presented) A lightweight subsea intervention package for use in servicing a subsea well, said subsea well comprising at least one of a vertical Christmas tree or a horizontal Christmas tree, said subsea intervention package being operable for containing said subsea well while using at least one of tubing, coiled tubing, or wireline during said servicing of said subsea wells, said subsea intervention package comprising:

a lower package attachable to said subsea well regardless of whether said subsea well comprises said vertical Christmas tree or said horizontal Christmas tree, said lower package comprising at least two hydraulically actuated valves neither of which are B.O.P.'s, at least one of

said at least two hydraulically actuated valves being operable for cutting said tubing, coiled tubing, or wireline and then closing to form a seal for sealing said subsea well, at least one of said at least two hydraulically actuated valves comprising a valve body and a fail-safe actuator mounted to one side of said valve body and a manual override actuator mounted to an opposite side of said valve body, said lower package defining a bore through said at least two hydraulically actuated valves which is greater than seven inches, said lightweight subsea intervention package being light enough and defining a footprint small enough such that said lightweight subsea intervention package can be installed on said subsea well utilizing a vessel with a handling capacity less than that of a semi-submersible platform.

8. (Original) The lightweight subsea intervention package of claim 7, wherein said lower package weighs between ten and forty tons.

9. (Previously Presented) The lightweight subsea intervention package of claim 7, further comprising:

a disconnect mechanism comprising a first portion and a second portion, said first portion of said disconnect mechanism being secured to said lower package, said first portion and said second portion of said disconnect mechanism being selectively separable;

an emergency disconnect package mountable to said second portion of said disconnect mechanism, said emergency disconnect package comprising at least one hydraulically actuated valve, said emergency disconnect package defining a bore through said at least one hydraulically actuated valve which is greater than seven inches.

10. (Original) The lightweight subsea intervention package of claim 9, wherein said at least two hydraulically actuated valves and said at least one hydraulically actuated valve define a bore therethrough which is greater than seven and one-eighth inches.

11. (Original) The lightweight subsea intervention package of claim 9, wherein said emergency disconnect package is securable to a riser and where said emergency disconnect package is operable to seal a lower end of said riser if said disconnect mechanism is activated to separate said emergency disconnect package from said lower package.

12. (Previously Presented) The lightweight subsea intervention package of claim 7, wherein at least one of said at least two hydraulically actuated valves is operable for repeated severing of tubulars of at least 2 3/4 inches without need for maintenance.

13. (Original) The lightweight subsea intervention package of claim 7, wherein a first of said at least two hydraulically actuated valves comprises a gate valve which comprises a cutter and seal assembly.

14. - 23. (Cancelled)

24. (Previously Presented) The lightweight subsea intervention package of claim 1, at least one of said at least two hydraulically actuated valves is operable for repeated severing of tubulars of at least 2 3/4 inches without need for maintenance.

25. (Previously Presented) The lightweight subsea intervention package of claim 1, further comprising an independent supply of hydraulic fluid mounted on said lightweight subsea intervention package.

26. (Previously Presented) The lightweight subsea intervention package of claim 7, further comprising an independent supply of hydraulic fluid mounted on said lightweight subsea intervention package.

27. (Previously Presented) The lightweight subsea intervention package of claim 1, wherein said emergency disconnect package is replaceable with a subsea lubricator, and wherein when said subsea lubricator is utilized, then wireline operations may be utilized without a riser.

28. (Previously Presented) The lightweight subsea intervention package of claim 7, further comprising an emergency disconnect package which is replaceable with a subsea lubricator, wherein when said subsea lubricator is utilized, then wireline operations may be utilized without a riser.

29. (Previously Presented) A lightweight subsea intervention package for use in servicing a subsea well, said subsea well comprising at least one of a vertical Christmas tree or a horizontal Christmas tree, said subsea intervention package being operable for containing said subsea well while using at least one of tubing, coiled tubing, or wireline during said servicing of said subsea wells, said subsea intervention package comprising:

a lower package attachable to said subsea well regardless of whether said subsea well comprises said vertical Christmas tree or said horizontal Christmas tree, said lower package comprising at least two hydraulically actuated gate valves, at least one of said at least two hydraulically actuated gate valves being operable for cutting said tubing, coiled tubing, or wireline and then closing to form a seal for sealing said subsea well, at least one of said at least two hydraulically actuated gate valves is operable for repeated severing of tubulars of at least 2 3/4 inches without need for maintenance, said lower package weighs between ten and thirty tons, and said lower package defining a bore through said at least two hydraulically actuated gate valves which is greater than seven inches.

30. (Previously Presented) The lightweight subsea intervention package of claim 29, further comprising an emergency disconnect package which is replaceable with a subsea lubricator, wherein when said subsea lubricator is utilized, then wireline operations may be

utilized without a riser.